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APPLICATION NO.] .	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/605,525	05,525 10/06/2003		William B. Rottenberg	4072-030	2524	
29797	7590	07/27/2006	EXAMINER			
JOHN RICH	IARD N	MERKLING		MANUEL, GEORGE C		
		SITION DRIVE		ART UNIT	PAPER NUMBER	
LAKEWOOI), CO	80226-3867			TALERNOMBER	
				3762		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	•	
		10/605,525	ROTTENBERG, W	ILLIAM B.	
	Office Action Summary	Examiner	Art Unit		_
		George Manuel	3762		
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with the c	correspondence add	dress	
WHI(- Exte after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D misions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statut reply received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this co D (35 U.S.C. § 133).	,	
Status					
1)□ 2a)□ 3)□	Responsive to communication(s) filed on This action is FINAL . 2b) This Since this application is in condition for allowed closed in accordance with the practice under the prac	s action is non-final. ance except for formal matters, pro		merits is	
Disposit	ion of Claims	•			
5)□ 6)⊠ 7)⊠ 8)□	Claim(s) 1-24 is/are pending in the application 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) 1.2.11 and 20-24 is/are rejected. Claim(s) 3-10 and 12-19 is/are objected to. Claim(s) are subject to restriction and/or ion Papers	wn from consideration.	,		
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10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine The specific and the spec	cepted or b) objected to by the lead of a drawing(s) be held in abeyance. Set tion is required if the drawing(s) is objected to by the lead of the drawing(s) is objected to by the lead of the drawing(s) is objected to by the lead of t	e 37 CFR 1.85(a). ected to. See 37 CF		
Priority u	ınder 35 U.S.C. § 119				
12) [a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea See the attached detailed Office action for a list	ts have been received. ts have been received in Applicationity documents have been received u (PCT Rule 17.2(a)).	on No ed in this National S	Stage	
2) 🔲 Notic 3) 🔯 Inform	e of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 10/6/03.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite	-152)	

Art Unit: 3762

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2, 11 and 20-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Duggan (U.S. Pat. 5,318,593).

Regarding claims 1, 2 and 11, Duggan discloses switch 106a' as part of a multiplexer 106. Fig. 3A shows a ventricular sense amplifier 139. Shown in the figure are a plurality of resistors and capacitors, Rv, Cv and R1, C1. The multiplex switch 106a' is disclosed as being implemented by the select switch 130 and the point of interconnection between the resistor R2 and R1 is coupled to the ground via the capacitor C2. One of ordinary skill in the art would have found it obvious to provide a plurality of double throw switches in place of the switch 106a' and 130a, c because the double throw feature is an equivalent position selection to multiplexing.

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Regarding claims 20-24, one of ordinary skill in the art would have found it obvious to modify the Duggan reference to provide a plurality of sense amplifiers having a plurality of inputs and a plurality of electrodes because Duggan teaches it is contemplated that a plurality of electrodes each coupled to an amplifier 134 and a select switch 130 may be coupled to a corresponding number of selected sites of a patient's heart.

Allowable Subject Matter

Claims 3-10 and 12-19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: Feedback capacitors connected between an output of the operational amplifier and an inverting input as claimed does not appear to be shown nor suggested by the prior art of record.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Arnett et al (U.S. Pat. 4,068,217) discloses sense amplifiers 37, 38, 39, and 40 that are connected to switches 41, 42, 43, and 44 where each switch is a three-position switch.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Manuel whose telephone number is (571) 272-4952.

George Manuel Primary Examiner Art Unit: 3762

7/18/06